

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims:

1. (Currently Amended) A composition for stimulating bone-formation and bone-consolidation comprising  
a water-soluble chitosan, a tripolyphosphate, and Big-h3 protein,  
wherein a mixed ratio of the tripolyphosphate to the water-soluble chitosan is 20:80 ~ 80:20 weight %, and wherein the Big-h3 protein is contained in the water-soluble chitosan at a concentration of ~~100 µg/ml ~ 1 mg/ml~~ 300 µg/ml ~ 600 µg/ml.
- 2-4. (Cancelled).
5. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 1, wherein the ratio of the tripolyphosphate to the water-soluble chitosan is 50:50 weight %.
- 6-10. (Cancelled).
11. (Currently Amended) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 1 8, wherein the Big-h3 protein is added at the concentration of 450 µg/ml.
12. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 1, wherein the water-soluble chitosan is 5% water-soluble chitosan, and the tripolyphosphate is 5% tripolyphosphate.
13. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 5, wherein the water-soluble chitosan is 5% water-soluble chitosan, and the tripolyphosphate is 5% tripolyphosphate.

14. (Cancelled)

15. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 11, wherein the water-soluble chitosan is 5% water-soluble chitosan, and the tripolyphosphate is 5% tripolyphosphate.

16. (Withdrawn) A method for stimulating bone-formation and bone-consolidation of a subject, comprising:

simultaneously injecting water-soluble chitosan solution containing  $\beta$ ig-h3 protein and tripolyphosphate solution in an effective amount to stimulate bone-formation and bone-consolidation into the same target spot of the subject using a dual syringe to induce immediate hardening of the water-soluble chitosan solution by mixing the water-soluble chitosan solution and the tripolyphosphate solution, wherein a mixed ratio of the tripolyphosphate solution to the water-soluble chitosan solution is 20:80 ~ 80:20 weight %, and wherein the concentration of the  $\beta$ ig-h3 protein in the water-soluble chitosan solution is 100  $\mu$ g/ml ~ 1 mg/ml.

17. (Withdrawn) The method for stimulating bone-formation and bone-consolidation as set forth in claim 16, wherein the mixed ratio of the tripolyphosphate solution to the water-soluble chitosan solution is 50:50 weight % and the concentration of the  $\beta$ ig-h3 protein is 300  $\mu$ g/ml ~ 600  $\mu$ g/ml.

18. (Withdrawn) The method for stimulating bone-formation and bone-consolidation as set forth in claim 17, wherein the concentration of the  $\beta$ ig-h3 protein is 450  $\mu$ g/ml.